

## Claims

1. A method for data transmission within a wireless communication system, the method comprising the steps of:

5        determining that data transmission needs to take place;  
          determining a communication system statistic; and  
          adjusting an idle-timer threshold based on the communication system statistic, wherein a data call is dropped if there exists no data transmission for a period of time greater than the idle-timer threshold.

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2. The method of claim 1 wherein the step of determining a communication system statistic comprises the step of determining an amount of system resources available to the communication system.

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3. The method of claim 1 wherein the step of determining a communication system statistic comprises the step of determining an amount of data channels available to the communication system.

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4. The method of claim 1 wherein the step of determining a communication system statistic comprises the step of determining a length of time that a data transmission call has taken place.

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5. The method of claim 1 wherein the step of determining a communication system statistic comprises the step of determining a link speed for the data transmission.

6. The method of claim 1 wherein the step of adjusting the idle-timer threshold comprises the step of either increasing or decreasing the idle-timer threshold based on the communication system statistic.

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7. The method of claim 1 further comprising the steps of:

- establishing an RF channel;
- receiving data to be transmitted;
- 5 transmitting the data over the RF channel;
- detecting a pause in the received data;
- determining a time period for the pause in the received data;
- comparing the time period to the idle-timer threshold; and
- discontinuing transmission of the data if the time period is greater than the
- 10 idle-timer threshold, otherwise continuing to transmit the data over the RF channel.

8. A method for data transmission within a communication system, the method comprising the steps of:

receiving data to be transmitted;  
5 transmitting the data over an RF channel;  
detecting a pause in the received data;  
determining a time period for the pause in the received data;  
determining a communication system statistic;  
adjusting an idle-timer threshold based on the communication system  
10 statistic,

comparing the time period to the idle-timer threshold; and

discontinuing transmission of the data if the time period is greater than the idle-timer threshold, otherwise continuing to transmit the data over the RF channel.

15 9. The method of claim 8 wherein the step of determining a communication system statistic comprises the step of determining an amount of system resources available to the communication system.

20 10. The method of claim 8 wherein the step of determining a communication system statistic comprises the step of determining an amount of data channels available to the communication system.

25 11. The method of claim 8 wherein the step of determining a communication system statistic comprises the step of determining a length of time that data transmission has taken place.

30 12. The method of claim 8 wherein the step of determining a communication system statistic comprises the step of determining a link speed for the data transmission.

13. The method of claim 8 wherein the step of adjusting the idle-timer threshold comprises the step of either increasing or decreasing the idle-timer threshold based on the communication system statistic.

14. An apparatus comprising:  
data transmission circuitry for transmitting over an RF channel; and  
an idle timer coupled to the data transmission circuitry, the idle timer  
detecting a time period that data transmission ceases; determines a communication  
system statistic, and adjusting an idle-timer threshold based on the communication  
system statistic, wherein an RF channel is dropped if there exists no data  
transmission for a period of time greater than the idle-timer threshold.

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15. The apparatus of claim 14 wherein the communication system statistic  
comprises an amount of system resources available to the communication system.

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16. The apparatus of claim 14 wherein the communication system statistic  
comprises the an amount of data channels available to the communication system.

15 17. The apparatus of claim 14 wherein the communication system statistic  
comprises a length of time that data transmission has taken place.

18. The apparatus of claim 14 wherein the communication system statistic  
comprises a link speed for the data transmission.

20 19. The apparatus of claim 14 wherein the idle-timer threshold is increased or  
decreased based on the communication system statistic.